OFFLOADING CRYPTOGRAPHIC PROCESSING FROM AN ACCESS POINT TO AN ACCESS POINT SERVER USING OTWAY-REES KEY DISTRIBUTION

5 ## ABSTRACT OF THE DISCLOSURE

In a network access point, a method of processing encrypted communication. In one embodiment, the method comprises receiving from a wireless client a first message comprising first values for a first random

10 number and information identifying the wireless client and the access point. In one embodiment, the method further comprises generating a second message comprising second values for a second random number and information identifying the access point and the wireless client. In one embodiment, the method further comprises sending the first values and the

15 second values to an access point server, and subsequently the access point server generates a session key using the first and second values and third values provided by the access point server, such that the processes are shared by the access point and the access point server. The method further comprises distributing the session key to the wireless client and the access

20 point.